SMART CITY 2.0

Strategies and Innovations for City Development

Editors

Deog-Seong Oh Fred Young Phillips Avvari V Mohan

World Scientific Series in R&D Management, volune 8



สำนักหอสมุด มหาวิทยาลัยเชียงใหม่

0 | 25 7711X 1 22685510

World Scientific Series in R&D Management - Vol. 8

SMART CITY 2.0

Strategies and Innovations for City Development



Editors

Deog-Seong Oh

Woosong University, South Korea

Fred Young Phillips

University of New Mexico, USA & Tongji University, China

Avvari V Mohan

University of Nottingham Malaysia Campus, Malaysia

Contents

Foreword		
	1,,	7
About the E	attors	vi
List of Figures		
List of Tables		
List of Abbr	eviations	xix
Introduction	i	xxii
Part 1 Ove	erviews	1
Chapter 1	Policies and Rules of Engagement in Traditional and Smart Cities <i>Kelechi A. Kalu</i>	3
Chapter 2	The Conceptual Framework and Key Strategies of Smart City Planning for Sustainable Urban Development Seo-Jeong Lee, Eung-Hyun Lee, Deog-Seong Oh	19
Part 2 Stra	tegies of Smart City Innovation	55
Chapter 3	How to Prepare for the Wicked Problems of the Postnormal Era: Introducing an Evaluation Model for Vucability Improvement Ilkka Kakko	57

Chapter 4	Understanding GARLICs: An Innopreneurship Platform for Smart Cities Arcot Desai Narasimhalu	87
Chapter 5	Human-centric Smart City Development Strategy in Taiwan Chien-Yuan Lin	113
Chapter 6	Did Users Co-create Innovation in Smart City Initiatives? A Case in Japan Jun Yamashita	129
Chapter 7	Science and Technology Park Development in the Context of Smart Cities Raimund Bröchler, Mathias Seifert	151
Chapter 8	Korean Technoparks: An Evolving Integrated Business Platform Jaehoon Rhee	167
Chapter 9	Impacts of the First to the Second Generation of Smart City Initiatives in Japan <i>Jun Yamashita</i>	195
Chapter 10	The Bright and Dark Sides of Open Innovation in Public Organizations: Evidence from Smart City Projects Stefano Bresciani, Alberto Ferraris, Gabriele Santoro	213
Chapter 11	Why Do Regional Innovation Systems Not Have Comprehensive Information Support? Fred Young Phillips, Benjamin Matheson, Urusha Thapa, Yun Jeong Choi, J. Byun	235
Part 3 Best Practices		263
Chapter 12	Smart City Strategy for Building an Innovation Platform: The Daedeok Innopolis	265

Chapter 13	Smart City Energy Inclusion, Towards Becoming a Better Place to Live Sang-Ryong Cha	287
Chapter 14	Applications of a Smart City for Sustainable Urban Regeneration Sunghee Lee, Jongkon Kim, Youngchul Kim	303
Chapter 15	The Smart City in Developing Countries: Experiences from Brazil Daniel Esashika, Gilmar Masiero, Yohann Mauger	329
Chapter 16	Virtual Reality for Disaster Management and Recovery Sheridan Tatsuno	349
Chapter 17	Smart Sustainable Cities and Entrepreneurship: A Proposal for a Non-aggregative Approach Enrico Ivaldi, Andrea Ciacci	357
Index		377